Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Dip	oloma Engineering - SEMESTER-III • EXAMINATION – WINTER 2013	
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ne: 0	02:30 pm - 05:00 pm Total Marks: 70	
1. 2. 3.	Attempt all questions.Make suitable assumptions wherever necessary.Figures to the right indicate full marks.	
(a)	Define the term "Welding" and Prepare Classification Chart of Welding Processes.	07
(b)	State Advantages and Limitations of Welding over other Temporary Joining Methods.	07
(a)	Draw neat sketch of any ONE Welding Power sources and describe its Specification.	07
(b)	Describe factors affecting selection of welding power source. OR	07
(b)	Describe factors affecting selection of Particular Welding Process.	07
(a)	Draw neat sketch of Inverter type Welding Equipment and write its Specifications.	07
(b)	Draw neat sketch of Welding Electrodes and describe its specification method.	07
(a)		07
(a) (b)	Describe AWS coding and specification method of Welding Electrode.	07
(a)	Draw neat sketch of SMAW and describe its Principle	07
(b)	Draw neat sketches of any SEVEN Welding Joints with their Symbols. OR	07
(a)	Draw neat sketch of SAW and describe its Process.	07
(b)	Draw neat sketches of any SEVEN Welding Defects and State their causes and remedies.	07
(a)	Draw neat sketch of ESW and describe its Process.	07
(b)	Explain Scope of ASME Code in Welding Process. OR	07
(a)	Describe Overlay Welding with neat sketch.	07
(b)	Explain scope of WPS, WPQ and PQR for coded Fabrication.	07
	(a) (b)	bject Name: Welding Technology-I me: 02:30 pm - 05:00 pm Total Marks: 70 Iructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 4. English version is considered to be Authentic. (a) Define the term "Welding" and Prepare Classification Chart of Welding Processes. (b) State Advantages and Limitations of Welding over other Temporary Joining Methods. (a) Draw neat sketch of any ONE Welding Power sources and describe its Specification. (b) Describe factors affecting selection of welding power source. OR (b) Describe factors affecting selection of Particular Welding Process. (a) Draw neat sketch of Inverter type Welding Equipment and write its Specifications. (b) Draw neat sketch of Welding Electrodes and describe its specification method. OR (a) Describe OCV and CCV with neat sketch. (b) Describe AWS coding and specification method of Welding Electrode. (a) Draw neat sketch of SMAW and describe its Principle. (b) Draw neat sketch of SAW and describe its Principle. (b) Draw neat sketch of SAW and describe its Process. (a) Draw neat sketches of any SEVEN Welding Defects and State their causes and remedies. (a) Draw neat sketch of ESW and describe its Process. OR (a) Draw neat sketch of ESW and describe its Process. OR (a) Describe Overlay Welding with neat sketch.
